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CLAIMS AMENDMENT

1-60. (cancelled)

61. (new): A macrolide or a glycosylated macrolide obtainable by a method comprising: providing a modified 6-dEB synthase in the presence of a starter unit which is an acetyl or propionyl thioester and an extender unit which is a methylmalonyl thioester to obtain a macrolide and optionally effecting glycosylation of said macrolide

wherein said modified 6-dEB synthase comprises at least one modification selected from the group consisting of:

- a) replacing the β -keto modifying (BKM) catalytic region in module 2 to contain, in addition to ketoreductase (KR) activity, dehydratase (DH) activity and optionally DH and enoylreductase (ER) activity;
- b) replacing the BKM region in module 3 with a BKM region which contains KR activity, optionally KR and DH activity and optionally KR, DH and ER activity;
- c) replacing the BKM region of module 5 with a BKM region which comprises, in addition to KR activity, DH activity and optionally DH and ER activity; and
- d) replacing the BKM region in module 6 to contain a BKM region which comprises, in addition to KR activity, DH activity and optionally DH and ER activity.
- 62. (new): The macrolide or glycosylated macrolide of claim 61 wherein at least 2 said modifications have been effected.
- 63. (new): The macrolide or glycosylated macrolide of claim 62 wherein at least 3 said modifications have been effected.
- 64. (new): The macrolide or glycosylated macrolide of claim 63 wherein at least 4 said modifications have been effected.
- 65. (new): The macrolide or glycosylated macrolide of claim 61 wherein no more than 2 said modifications have been effected.

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66. (new): The macrolide or glycosylated macrolide of claim 61 wherein no more than 3 said modifications have been effected.

- 67. (new): The macrolide or glycosylated macrolide of claim 61 wherein no more than 4 said modifications have been effected.
 - 68. (new): The macrolide or glycosylated macrolide of claim 61 which has the formula:

wherein R* is methyl or ethyl;

each of R¹-R⁶ is methyl;

X1 is OH or H; and/or

 X^2 is =O, OH or H; and/or

X³ is OH or H; and/or

X⁵ is OH or H; and/or

a pi bond is present at positions 10-11, 8-9, 4-5 and/or 2-3; and wherein at least one of the following restrictions is present:

 X^{1} is H;

X² is OH or H;

 X^3 is H;

X⁴ is H; and/or

a pi bond is present at positions 10-11, 8-9, 4-5 and/or 2-3.

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69. (new): The macrolide or glycosylated macrolide of claim 68 wherein at least 2 of said restrictions is present.

- 70. (new): The macrolide or glycosylated macrolide of claim 69 wherein at least 3 of said restrictions is present.
- 71. (new): The macrolide or glycosylated macrolide of claim 70 wherein at least 4 of said restrictions is present.
- 72. (new): The macrolide or glycosylated macrolide of claim 68 wherein no more than 2 of said restrictions is present.
- 73. (new): The macrolide or glycosylated macrolide of claim 68 wherein no more than 3 of said restrictions is present.
- 74. (new): The macrolide or glycosylated macrolide of claim 68 wherein no more than 4 of said restrictions is present.
- 75. (new): The glycosylated macrolide of claim 68 wherein the glycosyl residue is of L-mycarose or L-cladinose at position 3 and D-desosamine at position 5.

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